GE
Lighting

Evolve™ LED Flood Light

Wide Flood, Billboard & Spot (EFMR)

imagination at work

Product Features

The Evolve™ LED Flood Light offers a versatile solution to many applications, including architectural wall washing and facade lighting, sports court area lighting, flag poles and billboard/bulletin lighting. With three optimized designs, there is a solution to fit virtually any flood application. The sleek modern design minimizes size while maximizing application efficiency for many outdoor flood applications. GE's optical design efficiently directs the light and produces superior photometrics. This product also uniquely offers a photoelectric sensor receptacle to minimize control requirements if the application calls for a dusk-to-dawn solution.

The Evolve LED Flood Light offers a reduction in system energy compared with standard HID systems, depending on applications. This reliable system also offers more than 11 years of service life to significantly reduce maintenance frequency and expense, based on a 50,000 hour life and 12 hours of operation per day.

Applications

- General flood requirements, billboard/bulletin, spot and flag poles utilizing advanced refractive LED optical system providing high uniformity, excellent light distribution.

Housing

- Cast aluminum housing.
- Functional design integrates heat sink to ensure maximum heat transfer and long LED life.
- Meets 2G vibration standards per ANSI C136.31-2010.

LED & Optical Assembly

- Rectilinear LED arrays for optimized photometric patterns.
- Refractors designed to optimize application efficiency.
- Utilizes high brightness LEDs, 75 CRI at 4300K.
- LM-79 tests and reports are performed in accordance with IESNA standards.

Lumen Maintenance

- System rating is L70 at 50,000 hours. Contact manufacturer for Lxx rating (Lumen Depreciation) beyond 50,000 hours..

Ratings

- cULus listed, suitable for wet locations.
- IP 65 rated optical enclosure per ANSI C136.25-2009.
- Temperature rated at –40° to 40°C.
- Compliant with the material restriction requirements of RoHS.

Mounting

- Trunnion mount, wall mount or pole mount.

Finish

- Corrosion resistant polyester powder painted, minimum 2.0 mil. thickness.
- Standard color: Dark Bronze
- Additional colors available with minimum order quantities and extended lead times.

Electrical

- 120 volt electronic driver.
- System power factor is >90% and THD <20%.
- Class "A" audible sound rating.
- Integral surge protection:
  - For 120VAC per IEEE/ANSI C62.41.2-2002, 6kV/3kA Location Category C-Low (120 Events).

Warranty

- 5-year limited system warranty standard.

Ordering Number Logic

Wide Flood, Billboard and Spot Flood Light (EFMR)

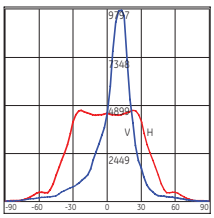
E F M R _ 1 _ _ _ 4 3 _ F _ G _ 4 _ T _ D K B Z _ _ _

PROD. ID	VOLTAGE	OPTICAL CODE	LED COLOR TEMP	DISTRIBUTION ORIENTATION	FIXTURE LENS TYPE	PE FUNCTION	MOUNTING ARM	COLOR	OPTIONS
E = LED **F** = Flood **M** = Medium **R** = Rectangular	**1** = 120	**BU** = Billboard/ Bulletin **NS** = Narrow Spot **WF** = Wide Flood	**43** = 4300K	**F** = Forward Throw	**G** =Tempered Glass	**4** = PE Rec. with Shorting Cap	**T** = Trunnion Mount Note: Wall mount and slipfitter mount are ordered and shipped separate (see below).	**DKBZ** = DARK BRONZE	**XXX** = Special Options

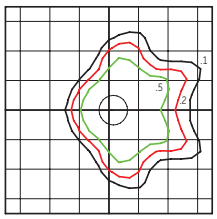
OPTICAL CODE	TYPE	TYPICAL INITIAL LUMENS 4300K	TYPICAL SYSTEM WATTAGE 120V	SUGGESTED APPLICATIONS	MOUNTING STYLE	IES FILE NUMBERS 4300K
BU	Billboard/Bulletin	5600	90	Sign Lighter	Trunnion Mount / Wall Mount / Pole Mount	454635
NS	Narrow Spot	5600	90	Architecture / Flag Pole	Trunnion Mount / Wall Mount / Pole Mount	454636
WF	Wide Flood	5600	90	Flood / Facade / Area	Trunnion Mount / Wall Mount / Pole Mount	454637

Photometrics

EFMR - Billboard/Bulletin (BU) 5,600 Lumens, 4300K (GE454635.ies)

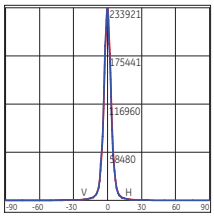


Max Candela = 9797
Vertical Angle = 12.5
H= Horiz. Axial Candela,
V=Vert. Axial Candela

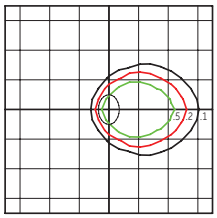


Grid Distance in Units of MH at 10' and 15° tilt

ERMR - Narrow Spot (NS) 5,600 Lumens, 4300K (GE454636.ies)

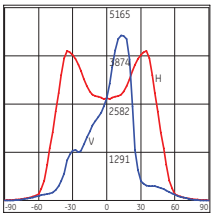


Max Candela = 233921
Vertical Angle = 0
H= Horiz. Axial Candela,
V=Vert. Axial Candela

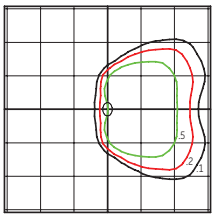


Grid Distance in Units of MH at 10' and 45° tilt

EFMR - Wide Flood (WF) 5,600 Lumens, 4300K (GE454637.ies)



Max Candela = 5165
Vertical Angle = 12.5
H= Horiz. Axial Candela,
V=Vert. Axial Candela

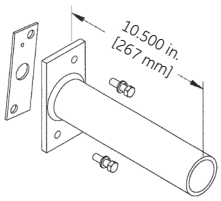


Grid Distance in Units of MH at 25' and 45° tilt

Wall and Slipfitter Mounting Options

SQUARE POLE MOUNTING ARM

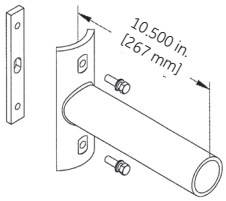
3.5 TO 4.5-inch (89 to 114mm) SQUARE
(WILL ALLOW 4 FIXTURES PER POLE @ 90 DEGREES.)



ORDER SEPARTELY FROM FIXTURE AS CATALOG NUMBER
SPA-EAMT10DKBZ "Dark Bronze"

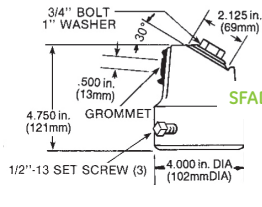
ROUND POLE MOUNTING ARM

3.5 TO 4.5-inch (89 to 114mm) OD
(WILL ALLOW 4 FIXTURES PER POLE @ 90 DEGREES.)

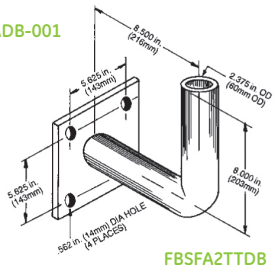


ORDER SEPARTELY FROM FIXTURE AS CATALOG NUMBER
RPA-EAMT10DKBZ "Dark Bronze"

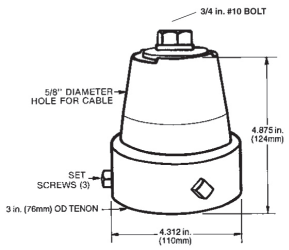
(FOR RETROFITS INSTALLATIONS OTHER MOUNTING PATTERNS ARE AVAILABLE)
CONTACT FACTORY FOR OTHER AVAILABLE MOUNTING PATTERNS



SFADB-001



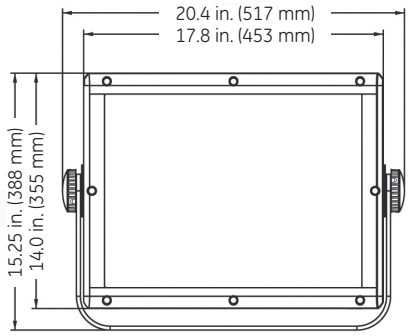
FBSFA2TTDB



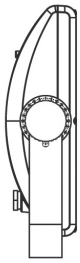
PTADB-002

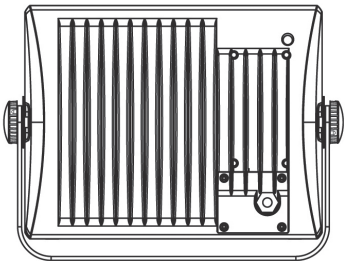
SFADB-001 - 2" Slip Fitter Adapter (must order FBS wall bracket or mounting arms for slipfiter separately SPA or RPA below)
PTADB-002 - Pole Top Adapter
FBSFA2TTDB - Wall Mount Pracket for 2" Slipfitter (must order slip fitter adapter separately above)
SPA-EAMT10DKBZ - Square Pole Mount Bracket for 2" Slipfitter (must order slip fitter adapter separately above)
RPA-EAMT10DKBZ - Round Pole Mount Bracket for 2" Slipfitter (must order slip fitter adapter separately above)

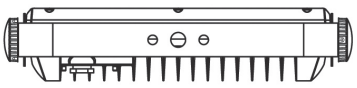
Product Dimensions

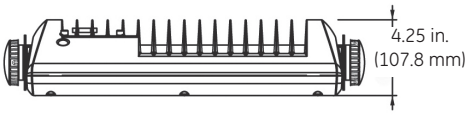


FRONT VIEW


SIDE VIEW


BACK VIEW


BOTTOM VIEW

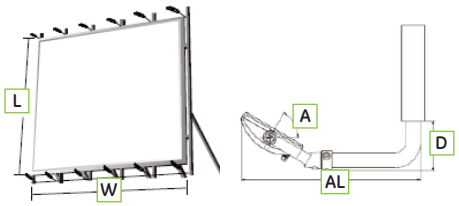


TOP VIEW

Applications

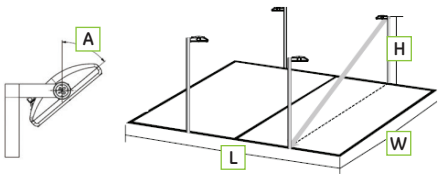
Billboard/Bulletin/Wall Wash Application

Application	Photometric Distribution	Suggested Tilt Angle (A)	Suggested Target Billboard Size Width (W)	Suggested Target Billboard Size Length (L)	Arm Length (AL)	Down Offset Distance (D)
Billboard/Bulletin	BU	0° - 30°	19 - 23 ft (5.79 - 7.01 m)	6 - 10 ft (1.83 - 3.01 m)	<3.0 ft (< 0.91 m)	<1.5 ft (< 0.46 m)



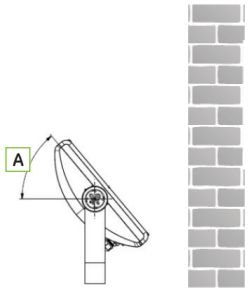
Flood Application

Application	Photometric Distribution	Suggested Tilt Angle (A)	Suggested Pole Mounting Height (H)	Suggested Target Size Width (W)	Suggested Target Size Length (L)
Wide Flood	WF	0° - 45°	25 - 33 ft (7.62 - 10.01 m)	40-50 ft (12.01 - 15.24 m)	50 - 65 ft (15.24 - 19.81 m)



Spot/Wall Application

Application	Photometric Distribution	Suggested Tilt Angle (A)
Spot	NS	0° - 180°



DATA

- Approximate Net Weight: 26.5 lbs (12 kgs)
- Effective Projected Area: 2.26 sq ft max (0.21 sq m)

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